



Constraints on  $\Omega_M$  and  $w$  (flat universe) from DEEP2 galaxy counts under three different scenarios: “optimistic” (dotted red), “best bet” (solid red), and “pessimistic” (dashed red). Depending upon the scenario, it has been assumed that velocity statistics have been obtained for 5,000-20,000 galaxies with  $0.7 < z < 1.5$ , and the strength of cosmic variance and the systematic effects of incompleteness, baryonic infall, and measurement errors are weaker or stronger. Also plotted in blue is the 95% constraint which would result from measuring the abundance of clusters in DEEP2. From Newman, Marinoni, Coil, and Davis (2001).